Advanced Practical Computer Applications

Course of Study

Black Horse Pike Regional School District Department: Business Prepared by: Alice Gallagher, Leanne Shine, Kerrie Williams Approved by: Mary-Alice Baratta Date: 7/2014

Advanced Practical Computer Application SYLLABUS

2014-2015 Academic School-Year Unit 1: One Note

1.1 Create a notebook, sections and pages (9.1.12.F.1) (9.1.12.F.2) (9.4.12.D.5) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

1.2 Apply a template and make subpages (9.1.12.A.1) (9.4.12.D.24) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

- 1.3 Insert a file (9.1.12.A.2) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)
- 1.4 Add content to subpages (9.4.12.D.14) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)
- 1.5 Insert tables (9.1.12.A.2) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)
- **1.6 Add a screen clippings**
- 1.7 Send to OneNote
- **1.8 Share OneNote**

Unit 2 Microsoft Word

2.1 Review word screen – difference between task bar and status bar, ribbons & tabs, different ways to save (9.1.12.A.2) (9.1.12.F.1) (9.4.12.D.24) (9.4.12.D.30) (8.1.12.A.3) (9.4.12.D.30) (9.4.12.D.30) (8.1.12.A.3)

2.2 Review keyboard shortcuts (9.1.12.A.2) (9.1.12.F.2) (9.4.12.D.30) (8.1.12.A.3)

2.3 Format for business letters (9.1.12.A.1) (9.1.12.A.2) 9.1.12.F.1) (9.3.12.C.5) (9.4.12.D.5) (9.4.12.D.24) (9.4.12.D.30) (8.1.12.A.3)

- 2.4 Advanced Find and Replace (9.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)
- 2.5 Mail Merge, labels and envelopes (9.1.12.A.1) (9.1.12.A.2) (9.1.12.F.1) (9.4.12.D.30) (8.1.12.A.3)
- **2.6** Creating and modifying styles (9.4.12.D.5) (9.4.12.D.30) (8.1.12.A.3)
- **2.7** Creating outline using outline feature (9.1.12.A.2) (9.4.12.D.24) (9.4.12.D.30) (8.1.12.A.3)
- 2.8 Tables formulas, advanced formatting (9.1.12.A.1) (9.1.12.A.2) (9.4.12.D.13) (9.4.12.D.30) (8.1.12.A.3)
- 2.9 Word Art with graphics and recolor (9.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)
- **2.10** Smart Art (9.1.12.A.2) (9.4.12.D.14) (9.4.12.D.30) (8.1.12.A.3)
- **2.11 Templates** (9.4.12.D.14) (9.4.12.D.30) (8.1.12.A.3)

Unit 2: Excel

3.1 Review formatting and formulas (9.1.12.A.2) (9.1.12.F.2) (9.4.12.D.26) (9.4.12.D.(4)2) (9.4.12.D(4).5) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3)

3.2 New Formatting Features -- Inserting/Deleting worksheets, Copying/Moving worksheets, Renaming worksheets, Changing worksheet tab colors, Grouping worksheets for editing/formatting, Excel tables w/structured references, Sorting/Filtering tables, Converting tables to ranges, Named ranges, Freezing columns and rows, Using worksheet panes, Conditional formatting, Find/Replace, Rotating entries, Printing titles, Changing orientation, Scaling to fit (9.1.12.A.2) (9.1.12.F.2) (9.4.12.D.26) (9.4.12.D.(4)2) (9.4.12.D(4).5) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3

3.3 Formulas

New -- IF, SUMIF, SUMIFS, COUNTIF, COUNTIFS, PMT, FV, PV, AVG, MAX, MIN, MEDIAN, ROUND, COUNT, COUNTA, NOW, FORECAST, TREND, GROWTH, VLOOKUP, HLOOKUP

Nesting formulas, Formulas referencing other worksheets, What-if Analysis, What-if Data Table, Goal Seek, Solver (9.1.12.A.2) (9.1.12.F.2) (9.4.12.D.26) (9.4.12.D.(4)2) (9.4.12.D(4).5) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3

3.5 Enhancing a worksheet: inserting SmartArt, pictures, hyperlinks, etc. (9.1.12.B.1) (9.4.12.D.14) (9.4.12.D.26) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3)

3.6 Charting: Types of charts, updating data source, 3-D charts, PivotTables/PivotCharts (9.1.12.A.1) (9.1.12.A.2) (9.1.12.B.1) (9.4.12.D.14) (9.4.12.D.26) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3)

3.3 Stock Market project – formulas, charting, stock analysis (9.1.12.A.1) (9.1.12.A.2) (9.1.12.B.1) (9.1.12.E.2) (9.4.12.D.5) (9.4.12.D.23) (9.4.12.D.26) (8.1.12.A.1) (9.4.12.D.30) (8.1.12.A.3)

Unit 3: Access

4.1 Understanding database & terminology (9.1.12.B.1) (9.1.12.F.2) (9.4.12.D.5) (9.4.12.D.27) (9.4.12.D(4).1) (9.4.12.D.30) (8.1.12.A.3)

4.2 Navigating a datasheet (9.1.12.A.2) (9.4.12.D.27) (9.4.12.D(4).1) (9.4.12.D.30) (8.1.12.A.3)

4.3 Changing the appearance of a datasheet (9.1.12.B.1) (9.4.12.D.27) (9.4.12.D.30) (8.1.12.A.3)

4.4 Create a database (9.1.12.A.1) (9.1.12.B.1) (9.4.12.D.4) (9.4.12.D.27) (9.4.12.D(4).1) (9.4.12.D.30) (8.1.12.A.3)

4.5 Design, create, and save tables (9.1.12.A.2) (9.1.12.B.1) (9.4.12.D.14) (9.4.12.D.27) (9.4.12.D.30) (8.1.12.A.3)

4.6 Creating queries (9.1.12.A.1) (9.4.12.D.27) (9.4.12.D(4).1) (9.4.12.D.30) (8.1.12.A.3)

3.7 Sort & filter data (9.1.12.B.1) (9.4.12.D.27) (9.4.12.D.30) (8.1.12.A.3)

3.8 Specify a primary key(9.1.12.B.1) (9.4.12.D.27) (9.4.12.D.30) (8.1.12.A.3)

3.9 Create an input mask (9.1.12.B.1) (9.4.12.D.27) (9.4.12.D.30) (8.1.12.A.3)

Unit 4: Publisher

5.1 Publisher basics (9.1.12.F.1) (9.1.12.F.2) (9.4.12.D.5) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

5.2 Choosing templates (9.1.12.A.1) (9.4.12.D.24) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

5.3 Change font & color schemes (9.1.12.A.2) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

5.4 Entering text, pictures (9.4.12.D.14) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

5.5 Working with objects (9.1.12.A.2) (8.1.12.A.2) (9.4.12.D.30) (8.1.12.A.3)

CORE SKILLS COURSE DESCRIPTION

Advanced Practical Computer Applications

Advanced Practical Computer Applications is designed to guide students to become better and more capable software users, to build upon skills learned in Practical Computer Applications, and to teach students advanced computer concepts for processing data into useful information needed in business situations. Specific focus is given to advanced concepts and skills of word processing, spreadsheet, database management, and desktop publishing. The programs of Microsoft Office -- OneNote, Word, Excel, Access, and Publisher – are used. Completing this class will prepare students to take the MS Office Specialist exam if desired

METHODS OF EVALUATION

Daily Classwork Assignments50%Test 40%Class Participation 10%

Black Horse Pike Regional School District Curriculum Template Engaging Students, Fostering Achievement, Cultivating 21st Century Skill

Engaging Students, Fostering Achievement, Cultivating 21st Century Skill PART I: UNIT RATIONALE

Why are students learning this content and these skills

Course/Unit Title: Advanced Practical Computer Application ONE NOTE	Unit Summary: All students will develop note taking skills using MS OneNote.
Grade Level(s): 9-12	
 Essential Question(s): 1. What are the benefits to taking notes electronically? 2. What are the benefits of sharing notes electronically? 3. How do you tag your notes in onenote? 4. What is the Tags Summary pane used for? 5. How do you insert different things to enhance your notes? 6. How do you use templates? 7. How do you add links, pictures and tables? 9. How do you attach files? 10. How do you add more sections and pages? 11. Why use the cloud? 12. What are screen clippings and how do you add them? 	 Enduring Understanding(s): Students will understand that Note taking is essential to succeeding in school and business Organizing notes electronically is beneficial Tagging items makes it easier to find information

PART II: Instructional Strategies and Resources

Describe the learning Targets, After each target, identify the standard that are applicable

LEARNING TARGET	STANDARD
	Standards WORK.9-
Students will be able to:	12.9.1.12.A.1 WORK.9-
1. Create a notebook and break it into sections and pages	12.9.1.12.F.2 ITEC.9-12.9.4.12.K.1
 Share information with other students electronically. Create template for Cornell notes in onenote and use it for school 	ITEC.9- 12.9.4.12.K.11
note taking.	ITEC.9- 12.9.4.12.K.24
4. Insert pictures, tables and links into a notebook	TEC.9-12.
5. Create tags using the tag summary pane.6. Utilize the cloud (skydrive/one drive) to access the notes from other	TEC.9-12.8.1.12 A.8 TEC.9-12.8.1.12 A.9
devices.	TEC.9-12.8.1.12 A.9 TEC.9-12.8.1.12 B.1 ITEC.9-
7. Use the screen clipping tools to add to notes that are taken.	12.9.4.12.K.23

Interdisciplinary Connections

English

Students will engage with the following text: http://highered.mcgrawhill.com/sites/007661395x/student_view0/onenote_2010_tutorial.html

Students will write:

<u>Journaling:</u> Students will write in journal/notebook

1. Using One Note students will take notes throughout the semester that they can save on a shared drive and access from any web enabled device.

2. Students will develop a template for Cornell notes to use One note in other classes as deemed possible.

3. Students will record how to complete certain procedures in One Note.

Activities all listed in the shared drive in ONENOTE TUTORIAL PDF PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

<u>How</u> will students uncover content and build skills. Projects:

- 1. Activity 1 Exercise 1-3 Create a Notebook, sections and pages
- 2. Activity 2 and Exercise 5: Apply a template and make subpage
- 3. Activity 3 and 4 Add content to a template
- 4. Activity 5 and Exercise 4 Insert a table
- 5. Activity 7 and exercise 15; Add a screen clipping, format a list and insert a screen clipping
- 6. Activity 8 and exercise 20 share and send a one note
- 7: Exercise 17 Search a notebook
- 8. Exercise 10 Delete a page and insert pictures
- 9. Exercise 8: Insert a file and a link
- 10. Exercise 7: Tag a note and use tag summary page

Class Activities:

Teacher generated handouts and assignments

Smart Board demonstrations

Teacher modeling

Information from the shared folders

PART IV: EVIDENCE OF LEARNING

IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.



Formative Assessments:

Daily projects completed and turned in to ensure student understanding and ability to transfer knowledge. Daily class participation and class work grades

Accommodations/Modifications:

- Extra time for class work projects
- Decrease the amount of information that is needed
- Use of visual aids such as whiteboard
- Introduce new vocabulary before the lesson and have that vocab available on onenote

- Provide guided notes when necessary
- Break long assignments into parts. Set separate due dates for each
- Read directions aloud/reread and explain as needed
- Allow student to redo project if they did not understand
- Reinforce positive behavior
- Preferential seating

Summative Assessments:

Projects and tests (see appendix in shared district folder)

These assessments are given after students have completed enough of the daily projects with a level of competence. Graded with a rubric.

Accommodations/Modifications

Extra time Less typing of data

Performance Assessment:

Electronic portfolio and project

Accommodations/Modifications

- Extra time
- Use of visual aids when needed
- Break long assignments into parts with separate due dates
- Provide a word bank when needed
- Read directions/Reread or explain the directions of the test
- Complete sample problems or tasks to model for students

Black Horse Pike Regional School District Curriculum Template ENGAGING STUDENTS • FOSTERING ACHIEVEMENT • CULTIVATING 21ST CENTURY GLOBAL SKILLS

ENGAGING STUDENTS • FOSTERING ACHIEVEMENT • CULTIVATING 21ST CENTURY GLOBAL SKILLS Course Name: Advanced Practical Computer Applications

Course Number:

PART I: UNIT RATIONALE

WHY ARE STUDENTS LEARNING THIS CONTENT AND THESE SKILLS?

Course/Unit Title:	Unit Summary: Word processors are one of the most used computer
Advanced PCA	programs. Their main purpose is to create, edit, and modify text-based
Word Processing/Word	documents that can be printed or used electronically. When students
Grade Level(s):	continue their studies to learn advanced word processing features such as
10 - 12	keyboard shortcuts, find/replace, mail merge, macros, styles, outlines, table
10 12	formulas, SmartArt, etc., they become more proficient users, more efficient
	employees, and more marketable job candidates.
Essential Question(s):	Enduring Understanding(s):
Why is it important to know	The teacher explains all lessons/assignments using the screen part names.
the parts of the Microsoft	Word is the most widely used word processing program in the workforce.
Word Screen?	As future workers, students will need to know/understand professional
Wold Bereen.	jargon.
Why are keyboard shortcuts	Using keyboard shortcuts will enable the students to be more productive
useful?	and efficient in the classroom and in the workforce.
	and officient in the classicion and in the workforce.
What process would you use	Block style letters are the most common used in the workforce. Knowing
to write a letter using	at least one acceptable letter style, students can easily modify to a
Microsoft Word?	company's preferred style if the style is different than Block.
wheresone word:	company s preferred style if the style is different than block.
Why is a standard business	Standard business letter format are used to increase productivity and
letter format useful?	efficiency in the workforce.
letter format userur:	efficiency in the workforce.
What is the purpose of using	Macros save time by eliminating repetitive keying and formatting.
macros.	Macros save time by eminimating repetitive keying and formating.
macros.	
Why are templates used?	Templates are used to increase productivity and efficiency in the
willy are templates used?	workforce.
	worktoice.
What are some advanced	Some advanced features of Find & Replace are matching case, using
features of Find & Replace	wildcards, looking for particular formatting, and looking for special
and why/when would the	characters such as tab or paragraph marks. Find & Replace enables the
features be used?	students to be more efficient when editing documents; therefore the
	student will be a more productive member of the workforce.
What are the advantages of	Mail marge is the most afficient and productive way for husinesses to
e	Mail merge is the most efficient and productive way for businesses to
using mail merge?	complete mass mailings.

When is creating and/or modifying a style useful?	Styles are used to apply a collection of formatting settings all at once which enhance and improve the look of a document. Modifying styles allows for individual tastes and preferences.
What is the purpose of outlines?	Outlines improve organizational skills.
Why are Word tables used?	Tables are used to present information/data in an easy-to-read and understand format.
How do you use formulas in a Word table?	The use of Word table formats and formulas can be applied to Excel applications.
What is the purpose of SmartArt?	SmartArt enhances the look of documents making documents more professional looking.
What are the advantages and disadvantages of using templates?	Templates can increase a worker's productivity and efficiency.

PART II: INSTRUCTIONAL STRATEGIES AND RESOURCES DESCRIBE THE LEARNING TARGETS.

After each target, identify the NJCCCS or Common Core Standards that are applicable

Learning Target NJCCCS or CCS		
1. Label the parts of the Microsoft Word screen.	1. [8.1.8.A.1; 9.1.12.A.1; 9.4.12.D.13]	
2. Match keyboard commands with its function.	2. [8.1.8.A.1; 9.1.12.A.1; 9.4.12.D.13	
3. Produce a block-style business letter.	3. 8.1.8.A.1; 9.1.12.A.1; 9.4.12.D.13	
4. Use Microsoft Office templates to produce various documents.	4. 8.1.8.A.1; 9.1.12.A.1;	
5. Applies advanced features of Find/Replace to edit various documents.	9.4.12.D.13 5. 8.1.8.A.1; 9.1.12.A.1;	
6. Constructs macros for repeated phrases and/or forms.	9.4.12.D.13	
7. Construct a database file and use mail merge to create various documents.	6. 8.1.8.A.1; 9.1.12.A.1; 9.4.12.D.13	
8. Modify and/or create a style to enhance the look of various documents.	 8.1.8.A.1; 8.1.8.A.2; 9.1.12.A.1; 9.4.12.D.13 	
9. Construct an outline to organize work to be done.	9.4.12.D.15 8. 8.1.8.A.1; 9.1.12.A.1;	

10. Produces a Word table and associated chart to display data.9.4.12.D.13		
11. Construct, manipulate, and modify Word tables and use formulas to solve	9. 8.1.8.A.1; 9.1.12.A.1;	
basic math functions.	9.4.12.D.13	
	10. 8.1.8.A.1;	
12. Applies SmartArt to various documents to enhance and display more	9.4.12.D.13	
professional look.		
1	11. 8.1.8.A.1; 9.1.12.A.1;	
13. Applies Templates to various documents to increase productivity and	9.4.12.D.13;	
	9.4.12.D.14	
efficiency.	12. 8.1.8.A.1; 9.1.12.A.1;	
	9.4.12.D.13	
Strategies:) <u>.</u>	
Lecture will be used to give instruction and oral directions.	13. 8.1.8.A.1; 9.1.12.A.1;	
Peer editing will be used to allow students to help each other. 9.4.12.D.13		
Modeling will be used on the SmartBoard.		
Pair Share will be used in taking and reviewing Cornell notes.		
Group discussion of new concepts and features.		

Inter-Disciplinary Connections:

English: Writing business letters and other business documents. Writing paragraph summaries of Internet research (pg 195;). Math: table with formulas, Internet search for current stock values pg 210 Social Studies: tables with historical data, Internet research

Students will engage with the following text:

Hoggartt, Jack P. Ed.D and Jon A. Shank, Ed.D. <u>Century 21 Computer Applications and Keyboarding</u>, <u>8th Edition</u>. South-Western Publishing, 2006.

Students will write:

Daily Warm up/Do Now Lesson Reflections Internet research summaries Cornell Notes

PART III: TRANSFER OF KNOWLEDGE AND SKILLS DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Class activities

- Teacher-generated Handouts for:
 - o Word Screen review
 - Word -- Skills Assessment Test
 - Keyboard shortcuts
 - o Find/Replace advanced features, Activity 3 pg 246
 - o Styles, Activity 4 pg 416, Activity 6 pg 417
 - o SmartArt
 - Job 14 -- Organization Chart pg 225

• Assignments

• Business Letters – Block Style

Teacher-created Format Guide for special parts Teacher created Format Guide for different letter styles Sample Letter -- Textbook pg 177 – Key and label Student creates personal letterhead to be used with all business letters Lesson 57 Exercises pg 183 Lesson 58 Exercises pg 185-186 Lesson 59 Exercises pg 186-187 Lesson 76 Document 4 pg 248

• Business Letters – 2 pages

- Lesson 65 Document 3 pg 206 Lesson 68 Document 2 pg 212
- Lesson 80 Document 1 pg 254-255

Lesson 113 Letter 1 pg 362; Letter 3 pg 363

• Business Letters – Modified Block Style

Lesson 77 Exercises pg 249

Lesson 101 Document 1 pg 310

Lesson 104 Document 1 pg 316

Lesson 112 Document 3 and 4 pg 361

• Macros

Teacher-created guide for recording, running, and editing Macros Activity 3 & 4 pg 179 Form Letters using macros Lesson 79 pg 253

Job 4 pg 324

• **Templates** Letter templates

0	Mail Merge
Ŭ	Word processing 11 Activity 1-7 pg 357-359
	Lesson 114 pg 364-365
	Lesson 115 pg 366-367
	Lesson 116 pg 368-370
	Lesson 140 pg 426-427
	Lesson 143 pg 432-433
	Lesson 146 Job 1 pg 439, Job 5 pg 440, Job 8 pg 442 (Letterhead), Job 9 pg 442, Job 10 Letter
	and Labels pg 443
0	Outlines
-	Purpose of outlines pg 259
	Activity 1 pg 260
	Lesson 81 Document 1 pg 262
	Lesson 102 Document 1 pg 312
	Lesson 105 Document 1 pg 318
0	Tables—Advanced Editing Features
	Lesson 61 Tables 1-4 pg 194-195
	Lesson 62 Tables 1-3 pg 197
	Lesson 63 Tables 1-3 pg 198-199
	Lesson 64 Tables 1-3 pg 200-201
	Lesson 67 Tables 1-3 pg 209-210
	Lesson 70 Tables 1-3 pg 215-216
	Word Processing 13 Activity 1-5 pg 395-397
	Lesson 126 Tables 1-4 pg 398
	Lesson 127 Tables 1-4 pg 399
	Lesson 128 Tables 1-7 pg 400-401
	Lesson 129 Tables 1-6 pg 402-403
	Lesson 131 Table pg 407
	Lesson 145 Document 1 pg 436
	Lesson 146 Job 3 pg 440, Job 12 pg 444
0	Agendas
	Lesson 131 Agenda 1-3 pg 406-407
	Lesson 142 Document 2 pg 430
	Lesson 145 Document 2 pg 436
	Lesson 146 Job 4 pg 440
0	Table of Contents
	Handout – formatting guide
	Lesson 134 Activity 13 & 14 pg 423-424

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.

Creating Evaluating Analyzing Applying Understanding Remembering

Formative Assessments:

Classwork assignments, tests, participation

Accommodations/Modifications:

Summative Assessments:

End of unit test

Accommodations/Modifications:

Performance Assessments:

Teacher observed skills assessment checklist test

Accommodations/Modifications:

PART I: UNIT RATIONALE

Why are students learning this content and these skills?

Course/Unit Title: Advanced Practical Computer Application EXCEL	Unit Summary : All students will develop critical thinking and problem-solving skills as they relate to Microsoft Office. In this unit the students will develop strategies for creating and manipulating Excel spreadsheets and workbooks. Standards 9.1.12.A., 9.1.12.B, 9.1.12.E, 9.1.12.F, 9.4.12.D
Grade Level(s): 9-12	
Essential Question(s): 1. How are various functions used in Excel to create database spreadsheets? 2. Why is it important to use formulas in an Excel spreadsheet? 3. How can formulas and functions be used to analyze the stock market? 4. Why does sorting data in Excel have benefits of time management? 5. What advantages does enhancing a worksheet with colors and graphics hold? 6. How and Why is it helpful to create charts in Excel?	 Enduring Understanding(s): Students will understand that Excel can have advantages in personal and professional lives. Excel can be used to create spreadsheets of data for many different topics. Excel has formulas and functions that can make everyday life easier.

PART II: Instructional Strategies and Resources

Describe the learning Targets, After each target, identify the standard that are applicable

LEARNING TARGET	STANDARD
LEARNING TARGET Students will be able to: 1. Describe the features of the Excel window 2. Apply the If Statment function 3. Apply the PMT function 4. Apply the FV & PV functions 5. Apply the AVG, MAX, and MIN functions 6. Create a stock market project including formulas, charts, and stock analysis 7. Sort data according to information 8. Enhance a worksheet using color, smart art, and pictures. 9. Chart various data.	1. 9.1.12.A.2, 9.1.12.F.2, 9.4.12.D.26, 9.4.12.D.(4)2, 9.4.12.D(4).5) 2. 9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.F.1, 9.4.12.D.4, 9.4.12.D.26, 9.4.12.D.(4)2, 9.4.12.D(4).5 3. 9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.F.1, 9.4.12.D.4, 9.4.12.D.26, 9.4.12.D.(4)2, 9.4.12.D(4).5 4.9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.F.1, 9.4.12.D.4, 9.4.12.D.26, 9.4.12.D.(4)2, 9.4.12.D(4).5 5.9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.F.1, 9.4.12.D(4).5 5.9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.F.1, 9.4.12.D(4).5
	9.4.12.D(4).5 6. 9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1, 9.1.12.E.2, 9.4.12.D.5, 9.4.12.D.23, 9.4 .12.D.26
	7. 9.1.12.B.1, 9.4.12.D.26
	8. 9.1.12.B.1., 9.4.12.D.14, 9.4.12.D.26 9. 9.1.12.A.1, 9.1.12.A.2, 9.1.12.B.1., 9.4.12.D.14, 9.4.12.D.26

Interdisciplinary Connections

History - Stock Market Background Math - Formulas & Functions Art - Enhancing Excel with Smart Art, Pictures, and Graphics Students will engage with the following text: "EXCEL IT!" Business Education Publishing, McGuiness, Martha

Students will write:

Journaling:

Students will write in journal/notebook

1. Steps needed to create and manipulate data in Exce;

2. Reflections on the project that was completed that day, drawing conclusions from questions that are asked.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Projects:

- 1. Label all parts of an excel screen. Using prior knowledge have the students label as much as they can on the worksheet and then as a class complete the rest of the worksheet on the smartboard.
- 2. Activity 52 in the EXCEL It book, PMT functions
- 3. Activity 53 in the EXCEL it book, PMT functions
- 4. Activity 50 in the EXCEL it book, Mean & Mode
- 5. Stock Market Project: Steps #1-6, set up entire workbook of formulas & functions
- 6. Stock Market Project: Background activities such as researching parent companies, stock symbols, and stock market history.

Class Activities: Teacher generated handouts and assignments Smart Board demonstrations Teacher modeling

PART IV: EVIDENCE OF LEARNING IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.



Formative Assessments:

Daily projects completed and turned in to ensure student understanding and ability to transfer knowledge. Daily class participation and classwork grades.

Accommodations/Modifications:

- Extra time for class work projects
- Decrease the amount of information that is needed
- Use of visual aids such as whiteboard
- Introduce new vocabulary before the lesson and have that vocab available on Quizlet
- Provide guided notes when necessary
- Break long assignments into parts. Set separate due dates for each
- Read directions aloud/reread and explain as needed
- Allow student to redo project if they did not understand
- Reinforce positive behavior
- Preferential seating

Summative Assessments:

Projects and tests

These assessments are given after students have completed enough of the daily projects with a level of competence. Graded with a rubric.

Accommodations/Modifications

Extra time Less typing of data

Performance Assessment:

Electronic portfolio and project

Project will require students to analyze information in the database to form conclusions

Accommodations/Modifications

- Extra time
- Use of visual aids when needed
- Break long assignments into parts with separate due dates
- Provide a word bank when needed
- Read directions/Reread or explain the directions of the test
- Complete sample problems or tasks to model for students

PART I: UNIT RATIONALE

Why are students learning this content and these skills?

Course/Unit Title: Advanced Practical Computer Application ACCESS UNIT	Unit Summary : All students will develop critical thinking and problem-solving skills as they relate to Microsoft Office. In this unit the students will develop strategies for creating and manipulating databases created in MS Access. Standards 9.1.12.B.1, F.2;9.4.12.D.5,27,30
Grade Level(s): 9-12	
Essential Question(s): 1. What are the differences between a table, record and field in a MS Access? 2. Describe the use and function of a database management system? 3. What are the differences between design view and datasheet view in MS access? 4. Why is it important to create a query using a database? 5. When and why would you use database to organize data instead of spreadsheets? 6. What information should be gathered to include in database? 7. Why and how do you establish relationships in tables?	 Enduring Understanding(s): Students will understand that Access allows for database manipulation There are differences and similarities of Access and Excel Benefits of inputting information into a database

PART II: Instructional Strategies and Resources

Describe the learning Targets, After each target, identify the standard that are applicable

LEARNING TARGET	STANDARD Standards
 Students will be able to: 1. Describe the features of the access window 2. Create and manage a database 3. Apply application parts 4. Create table and add records 5. Create and modify fields 6. Sort and filter records 7. Set relationships using primary keys 8. Enter and format text 9. Import data from a single data file 10. Create forms and apply form design tab options 11. Create and manage queries 12. Set input masks 	9.1.12.B.1, F.2;9.4.12.D.5,27,30

Interdisciplinary Connections

English Math

Students will engage with the following text:

"ACCESS IT!" Business Education Publishing, McGuiness, Martha

Students will write:

Journaling:

Students will write in journal/notebook

1. Steps needed to create and manipulate data in Access

2. Reflections on the project that was completed that day, drawing conclusions from questions that are asked.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Projects:

- 1. Label all parts of an access screen. Using prior knowledge have the students label as much as they can on the worksheet and then as a class complete the rest of the worksheet on the smartboard.
- Activity 1 in the ACCESS It book Celebrity addresses to create, save and print a database and a table. Additional projects available in Access folder in shared directory called "Access project 1"
- 3. Activity 2 Rap albums formatting number fields and sorting also in access folder "presidents"
- 4. Activity 3 Movies Formatting in currency field and sorting in descending order
- 5. Primary key lesson: Activity 9 in ACCESS IT and Yearbook in the shared folder
- 6. Query Activity 6 Nascar and in access folder Presidents
- 7. Input Mask -

Class Activities:

- Teacher generated handouts and assignments
- Smart Board demonstrations
- Teacher modeling
- Information from the shared folders

PART IV: EVIDENCE OF LEARNING

IDENTIFY THE METHODS BY WHICH STUDENTS WILL DEMONSTRATE THEIR UNDERSTANDING OF CONTENT AND THEIR ABILITY TO APPLY SKILLS. IDENTIFY BLOOM'S LEVELS.

Formative Assessments:

Daily projects completed and turned in to ensure student understanding and ability to transfer knowledge. Daily class participation and classwork grades.

Accommodations/Modifications:

- Extra time for class work projects
- Decrease the amount of information that is needed
- Use of visual aids such as whiteboard
- Introduce new vocabulary before the lesson and have that vocab available on Quizlet
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- Break long assignments into parts. Set separate due dates for each
- Read directions aloud/reread and explain as needed
- Allow student to redo project if they did not understand
- Reinforce positive behavior
- Preferential seating

Summative Assessments:

Projects and tests (see appendix in shared district folder)

These assessments are given after students have completed enough of the daily projects with a level of competence. Graded with a rubric.

Accommodations/Modifications

Extra time Less typing of data

Performance Assessment:

Electronic portfolio and project

Project will require students to analyze information in the database to form conclusions **Accommodations/Modifications**

- Extra time
- Use of visual aids when needed
- Break long assignments into parts with separate due dates
- Provide a word bank when needed
- Read directions/Reread or explain the directions of the test
- Complete sample problems or tasks to model for students

PART I: UNIT RATIONALE

Why are students learning this content and these skills?

Course/Unit Title: Advanced Practical Computer Application PUBLISHER UNIT	Unit Summary : All students will develop critical thinking and problem-solving skills as they relate to Microsoft Office. In this unit the students will develop strategies to determine how to effectively communicate a message using MS Publisher, including graphics, text and advanced formatting.
Grade Level(s): 9-12	
 Essential Question(s): 1. How can you use MS Publisher to create brochures, business cards and advertisements with similar themes for recognition 2. What different fonts are most effective when creating different publishing pieces? 3. What is WYSIWYG? 4. What are the most important purpose of design is to communicate in a clear, effective way to produce good design to communicate the intended message 5. What are the six basic steps to publishing process? 6. Why is it important to identify your target market when creating a publication? 7. What design elements are incorporated in advertisements or publications? 8. What make a publication's layout appealing and easy to read? 	 Enduring Understanding(s): Students will understand that Creating and designing publications with similar themes to create awareness Applying publisher skills for business and educational uses

PART II: Instructional Strategies and Resources

Describe the learning Targets, after each target, identify the standard that are applicable

LEARNING TARGET	STANDARD
	Standards 3.1
	F1, F2, F3, 4.2 D1, D2
Students will be able to:	8.1 A6, A8
1. Use the tools in Publisher to change text style of the	9.1 A1, A5, B1, B2,
document	B3, B5
2. Create greeting card, sign, poster, invitation, flyer,	
business card, newsletter	
3. Create, format and edit multicolumn and single column	
publications	
4. Place, scale, crop and frame images in a publication.	
5. Understand how to align text and objects	
6. Utilize tables in various publications	

Interdisciplinary Connections

English Art

Students will engage with the following text: "PUBLISH IT!" Business Education Publishing, McGuiness, Martha

Students will write:

Create publications and write copy for brochures.

PART III: TRANSFER OF KNOWLEDGE AND SKILLS

DESCRIBE THE LEARNING EXPERIENCE.

How will students uncover content and build skills.

Projects:

- 1. Label all parts of an publisher screen. Using prior knowledge have the students label as much as they can on the worksheet and then as a class complete the rest of the worksheet on the smartboard.
- 2. Project #5 how to create and design business letterhead
- 3. Project #8 Create and design a campaign poster
- 4. Project #9 Create and design an award certificate
- 5. Project #11 Create and design an admission ticket
- 6. Project #16 create and design greeting card
- 7. Project #18 create and design business card
- 8. Project # 20 Create and design an event invitation
- 9. Project # 34 Create and design a three panel brochure
- 10. Project # 33 Create and design a Restaurant menu
- 11. Project # 32 create and design a word search puzzle
- 12. Project #30 create and design a candy bar wrapper
- 13. Other options are the concert tour book for other creative options

Class Activities:

- Teacher generated handouts and assignments from Publish it
- Smart Board demonstrations
- Teacher modeling
- Information from the shared folders

PART IV: EVIDENCE OF LEARNING

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Performance Assessment:

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Accommodations/Modifications

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